# Reaction of Researchers to Plan S; Too far, too risky?

An Open Letter from Researchers to European Funding Agencies, Academies, Universities, Research Institutions, and Decision Makers

We support open access (OA) and Plan S is probably written with good intentions. However, Plan S<sup>1</sup>, as currently presented by the EU (and several national funding agencies) goes too far, is unfair for the scientists involved and is too risky for science in general. Plan S has far-reaching consequences, takes insufficient care of the desires and wishes of the individual scientists and creates a range of unworkable and undesirable situations:

- (1) The complete ban on hybrid (society) journals of high quality is a big problem, especially for chemistry. Apart from the fact that we won't be allowed to publish in these journals anymore, the direct effect of Plan S and the way in which some national funding agencies and academic/research institutions seem to want to manage costs may eventually even lead to a situation where we won't even be able to legally read the most important (society) journals of for example the ACS, RSC and ChemPubSoc anymore. Note that in their announcement of Plan S, the Dutch funding organisation NWO (for example) wrote that they expect to cover the high article processing charges (APCs) associated with the desired Gold OA publishing model from money freed by disappearing or stopped subscriptions to existing journals<sup>2</sup>. As such, Plan S may (eventually) forbid scientists access to (and publishing in) >85% of the existing and highly valued (society) journals! So effectively Plan S would block access to exactly those journals that work with a valuable and rigorous peer-review system of high quality. As a second note on this aspect: In the Netherlands, already for more than 6 months, researchers don't have legal access to most RSC journals<sup>3</sup>. Fully banning even more society journals is completely unacceptable and unworkable.
- (2) We expect that a large part of the world will not (fully) tie in with Plan S. The USA, China and the rest of Asia highly value the existing (society) journals, in particular (for chemistry) the ACS journals and (for physics) the APS journals. Germany and Switzerland already indicated they will not conform to the plans as currently formulated. Belgium will also not join-in and independently introduced a different OA policy. Spain is also out, at least for the time being. A transition period for the rest of the world will surely take a long time, and a total global ban on hybrid (society) journals being taken up as a global initiative seems very improbable. Therefore, Plan S has the risk of splitting the global scientific community into two separate systems: coAlition S grantees vs. the rest of the world, with all associated negative consequences. If that happens, this will have a strong negative effect on collaborations between the coAlition S countries and the rest of the world, because joint publications in the highest quality selective journals, based on rigorous peer review and quality control procedures, with the highest standing in the community, won't be possible anymore (e.g. JACS, Science, Nature, Nature Chemistry, ACS Catalysis and Angewandte Chemie are all forbidden under Plan

<sup>2</sup> https://www.folia.nl/actueel/123528/volledig-open-access-in-2020-6-vragen-en-antwoorden

<sup>&</sup>lt;sup>1</sup> https://www.scienceeurope.org/coalition-s/

<sup>3</sup> https://vsnu.nl/en\_GB/news-items/nieuwsbericht/394-no-agreement-with-the-royal-society-of-chemistry-publishing%C2%A0.html

- S!). This will also have a strong negative impact on the internationalization of PhD students and postdocs. Why would someone with academic ambitions come to e.g. the Netherlands or Sweden to obtain a PhD or obtain postdoc experience if they are not allowed to publish in journals that are important for their career progression, on the international landscape, and would make them therefore uncompetitive if they want to leave cOAlition S countries? Students in our universities are already starting to wonder if it is wise to do a PhD in a cOAlition S country, or rather move to another country to increase their chances of a successful (academic) career. Furthermore, if Plan S succeeds in splitting the global research system, it puts the willingness of scientists to do something for anyone in 'the other system', such as acting as a peer reviewer for manuscripts and research proposals, under pressure. These are all highly undesirable developments that will hurt science as a whole.
- (3) We fully appreciate and agree with ongoing concerns about the exploding costs of journal subscriptions. However, with its strong focus on the Gold OA publication model, in which researchers pay high APCs for each publication, the total costs of scholarly dissemination will likely rise instead of reduce under Plan S. Furthermore, it will not eliminate the so-called publication 'paywall', but rather simply shifts it from reading to publishing. Tying in with this, the strong focus of Plan S to support in particular for-profit Gold OA-journals (at the expense of high quality non-profit Society journals<sup>4</sup>) has a serious risk that it leads to a surplus of papers of low quality/originality/newsworthiness and that research groups are confronted with high APCs. After all, this system is coupled to perverse financial incentives: Stimulate accepting as many papers as possible regardless of their quality and keep increasing the already high APCs in more selective journals.
- (4) Plan S ignores the existence of large differences between different research fields. Plan S has (probably) a much larger negative effect on chemistry than on some other fields. A one-size-fits-all approach, as presented in Plan S, is therefore a bad idea. The 'mountain of feathers' effect that Plan S can trigger will likely quickly result in lower international ranking and standing of individual cOAlition S researchers, most certainly if little changes elsewhere.

Taken together, **Plan S is a serious violation of academic freedom**: Strongly reduced access to (and possibilities to publish in) suitable scientific journals of high quality, with a direct consequence that it also strongly restricts our choice of countries with which we can conveniently collaborate with or sustain lasting exchange programs. There are also issues with the copyright model (CC-BY) demanded by Plan S. A full ban on publishing in hybrid journals with imposed sanctions also feels as a serious degradation of existing rights. Most problematically, less radical and cheaper solutions are certainly possible. See for example the suggestions presented here: <sup>5</sup>. In addition, more and more journals (for example, JACS<sup>6</sup> and Elsevier<sup>7</sup> journals) are allowing researchers to not only deposit preprints of their work but also updating with each round of peer review until the decision letter is issued such that the research

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<sup>&</sup>lt;sup>4</sup> https://www.timeshighereducation.com/news/plan-s-could-prove-fatal-learned-societies

<sup>&</sup>lt;sup>5</sup> https://forbetterscience.com/2018/09/11/response-to-plan-s-from-academic-researchers-unethical-too-risky/

<sup>&</sup>lt;sup>6</sup> https://pubs.acs.org/page/jacsat/submission/prior.html

<sup>&</sup>lt;sup>7</sup> https://www.elsevier.com/about/policies/sharing#preprint

becomes immediately available *via* the pre-print server. However, as currently framed, Plan S sees such modes of dissemination as only being of archival value and this type of Green OA publishing is non-compliant under the current 10 rules of Plan S.

Researchers should have the freedom to choose publication venue, and while complying with Open Access mandates to also choose how papers are made Open Access, in a way that contributes to minimal increased costs for the publishing system while not impinging on academic freedom or jeopardizing internationalization in research and higher education. We call on both funding agencies who are already part of coAlition S and those who have not (yet?) signed up, to take into account the full landscape of ways that papers can be made Open Access, and not just the very narrow definition provided by Plan S (including the hybrid ban, and the fact that peer reviewed pre-prints such as allowed by the ACS are currently not an obvious compliant solution). In addition, we demand that coAlition S signatories take responsibility for the implications and risks Plan S may have for the European research landscape, and to therefore take every possible action in the implementation stage to prevent these potential and unintended consequences.

#### Abbreviations:

ACS: American Chemical Society APC: Article Processing Charge APS: American Physical Society

ChemPubSoc: Partnership of 16 continental European chemical societies nurturing a family of

high-quality chemistry journals

EU: European Union

JACS: Journal of the American Chemical Society

NWO: Netherlands Organisation for Scientific Research

OA: Open Access (no costs for reading)

Gold OA: OA model where the publications are immediately available from the publisher, usually upon author payment of an APC fee to get their paper published.

Green OA: Subscription journals accepting depositing a pre- or post-print in a repository.

Platinum OA: Fully free to publish and read.

**RSC:** Royal Society of Chemistry

VSNU: Vereniging van Samenwereknde Nederlandse Universiteiten

#### Resources:

https://www.scienceeurope.org/coalition-s/

https://forbetterscience.com/2018/09/11/response-to-plan-s-from-academic-researchers-unethical-too-risky/

https://www.timeshighereducation.com/opinion/podcast-plan-s-squelch

https://www.tidningencurie.se/debatt/europas-beslut-om-open-access-gar-for-langt/#.W88PDXz-zng.twitter

# Signatories:

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- 92. **Jeroen Codée**, Assoc. Prof. Bio-organic Chemistry, Leiden Institute of Chemistry, Leiden University (UL)
- 93. **Tom van der Wel**, PhD student, Leiden Institute of Chemistry, Leiden University (UL)
- 94. **Raoul Plessius**, PhD student, Supramolecular catalysis, Universiteit van Amsterdam (UvA)
- 95. **Annelot van Esbroeck**, PhD student, Leiden Institute of Chemistry, Leiden University (UL)
- 96. **Michiel Langerman**, PhD student, Leiden Institute of Chemistry, Leiden University (UL)
- 97. Martijn van der Plas, PhD student, Leiden Institute of Chemistry, Leiden University (UL)
- 98. **Christian Marvelous**, PhD student, Leiden Institute of Chemistry, Leiden University (UL)
- 99. **S. Hakim Hamdani**, master's student, Synthetic Organic Chemistry, Radboud University, Nijmegen (RU)
- 100. **Joachim Bijl**, Master student, Synthetic Organic Chemistry, University of Amsterdam (UvA)
- 101. Daan den Boer, PhD student, Leiden Institute of Chemistry, Leiden University (UL)
- 102. Dmitri Filippov, Assistant Professor, Leiden Institute of Chemistry, Leiden University (UL)
- 103. Arnold J.M. Driessen, Prof. Molecular Microbiology, University of Groningen (RUG)
- 104. Zhenghui Wen, PhD student, Micro Flow Chemistry & Synthetic Methodology
- 105. Eva Blokker, Master student, Theoretical Chemistry, Vrije Universiteit Amsterdam (VU)
- 106. Mandy Erkelens PhD student, Leiden Institute of Chemistry, Leiden University (UL)
- 107. **Joris Timmermans.** Postdoc Researcher, Institute of Environmental Studies, Leiden University (UL)
- 108. **Tibor Kudernac**, Assistant Professor, Organic Chemistry, University of Twente (UT)
- 109. Geert-Jan Kroes, Prof. Theoretische Chemie, Universiteit Leiden
- 110. Wybren Jan Buma, Prof. Molecular Spectroscopy, Universiteit van Amsterdam (UvA)
- 111. Jeroen P.J. Bruekers, PhD student, Molecular Nanotechnology, Radboud University (RU)
- 112. Gerard van Koten, Honorair University Professor, Universiteit Utrecht (UU)
- 113. Akansha Goyal, PhD student, Leiden Institute of Chemistry, Leiden University (UL)
- 114. Alex van der Ham, PhD student, Leiden Institute of Chemistry, Leiden University (UL)
- 115. **Syuzanna R. Harutyunyan**, Prof. Synth. Organic Chemistry, Rijksuniversiteit Groningen (RuG)
- 116. **Jiangkun Ouyang,** Postdoc, Organic Chemistry, Radboud University, Nijmegen (RU)
- 117. **Saurabh Soni**, PhD student, Zernike Institute for Advanced Materials and Stratingh Institute of Chemistry, University of Groningen (RuG)
- 118. **Jean-Paul Lange,** Professor, Chemical Engineering, University of Twente (UT) and Principal Researcher at Shell Technology Center, Amsterdam
- 119. Jörg Meyer, Assistant Professor, Theoretical Chemistry, Leiden University (UL)
- 120. **Han Mulder**, Associate Professor, Animal Breeding and Genomics, Wageningen University (WU)
- 121. **Jan Vos**, PhD student, Leiden Institute of Chemistry, Leiden University (UL)
- 122. Albert J. R. Heck, Distinguished Faculty Professor, Utrecht University (UU)
- 123. **Albert P.H.J. Schenning**, Prof. Stimuli-responsive Functional materials and Devices, Eindhoven University of Technology (TU/e)

- 124. **Bert Klein Gebbink**, Prof. Homogeneous and Bio-inspired Catalysis, Utrecht University (UU)
- 125. **Wesley Ketelaars,** Master student, Molecular Chemistry, Radboud University, Nijmegen (RU)
- 126. **Anne Swartjes**, PhD student, Molecular Nanotechnology, Radboud University, Nijmegen (RU)
- 127. **Wesley Browne**, Associate Professor Molecular Inorganic Chemistry, University of Groningen (RUG)
- 128. **David N. Reinhoudt**, Em. prof. Supramolecular Chemistry, University of Twente (UT), part-time prof. Supramolecular Chemistry, Radboud University Nijmegen (RU)
- 129. Lara Polak, Master student, Bio-Inspired Catalysis, Universiteit van Amsterdam (UvA)
- 130. **Martijn Tepaske**, Master student, Bio-Inspired Catalysis, Universiteit van Amsterdam (UvA)
- 131. Sijbren Otto Prof. Systems Chemistry, University of Groningen (RuG)
- 132. **Cornelis J. Elsevier**, Prof. Molecular Inorganic Chemistry, Universiteit van Amsterdam (UvA)
- 133. Inge Loes ten Kate, Asst Prof. Planetary Science / Astrobiology, Utrecht University (UU)
- 134. Edwin Otten, Associate Professor Molecular Inorganic Chemistry, University of Groningen
- 135. **Johannes E. M. N. Klein**, Assistant Professor Molecular Inorganic Chemistry, University of Groningen (RUG).
- 136. Henk van den Berg, Professor, Universiteit Twente (UT).
- 137. **Trevor A. Hamlin**, Ass. Prof., Theoretical Chemistry, Vrije Universiteit Amsterdam (VU)
- 138. **Pascal Vermeeren**, PhD student, Theoretical Chemistry, Vrije Universiteit Amsterdam (VU)
- 139. **Stephanie van der Lubbe**, PhD student, Theoretical Chemistry, Vrije Universiteit Amsterdam (VU)
- 140. **Célia Fonseca Guerra**, Professor, Theoretical Chemistry, Vrije Universiteit Amsterdam (VU)
- 141. Timme H. Donders, Ass. Professor Palaeoecology, Utrecht University (UU)
- 142. Evert Jan Baerends, Prof. Em. Theoretical Chemistry, Vrije Universiteit Amsterdam (VU)
- 143. **Han J.G.E. Gardeniers**, Prof. Chemical Engineering, University of Twente (UT)
- 144. **Ellen Kampinga**, Master student, Chemistry of Molecular Materials and Devices, University of Groningen (RUG)
- 145. **Detlef Lohse**, Professor, Physics of Fluids, University of Twente (UT)
- 146. Richard van Lent, PhD student, Leiden Institute of Chemistry, Leiden University (UL)
- 147. **Arash Helmi**, Postdoc, Inorganic Membranes and Membrane Reactors, TU Eindhoven (TUe)
- 148. Qi Yu, PhD student, Institute of Environmental Science, Leiden University (UL)
- 149. Ward Doelman, PhD student, Leiden Institute of Chemistry, Leiden University (UL)
- 150. **Lies Bouwman**, Professor Inorganic Chemistry, Leiden University (UL)
- 151. **Hidde Elferink**, PhD student, Synthetic Organic Chemistry, Radboud University, Nijmegen (RU)
- 152. Binne Zwanenburg, Em. Prof. Organic Chemistry, Radboud Universiteit, Nijmegen (RU)
- 153. Jiabin Luan, PhD student, Systems Chemistry, Radboud University, Nijmegen (RU)

- 154. **Ayush Narsaria**, PhD student, Theoretical Chemistry, Vrije Universiteit, Amsterdam (VU)
- 155. **Thomas Boltje**, Assistant Professor, Institute for molecules and Materials, Radboud University (RU).
- 156. **Viktor Ivasyshyn**, PhD Student, Chemistry of Molecular Materials and Devices, University of Groningen (RUG)
- 157. **Irene Groot**, Associate Professor Heterogeneous Catalysis/Surface Science, Leiden University
- 158. Silvia D'Agostini, PhD student, Leiden Institute of Chemistry, Leiden University (UL)
- 159. **Rint Sijbesma**, professor of Supramolecular Polymer Chemistry, TU Eindhoven (TUe)
- 160. **Nicole Smits**, PhD Student, Leiden Institute of Chemistry, Leiden University (UL)
- George Palasantzas, Prof. Physics, Zernike Institute for Advanced Materials, University of Groningen (RUG)
- 162. **Jan Anton Koster**, Associate Professor of Applied Physics, University of Groningen (RUG)
- 163. **Thomas la Cour Jansen**, Assistant Professor Physics, Zernike Institute for Advanced Materials, University of Groningen (RUG)
- 164. **Jane Kardula**, PhD Student, Chemistry of Molecular Materials and Devices, University of Groningen (RUG)
- 165. **Sylvia Rousseva,** PhD Student, Zernike Institute for Advanced Materials and Stratingh Institute of Chemistry, University of Groningen (RUG).
- 166. **Bart J. Kooi**, Professor, Zernike Institute for Advanced Materials, University of Groningen (RUG)
- 167. **Jacob van Hengst**, PhD Student, Leiden Institute of Chemistry, Leiden University (UL)
- 168. Maarten Stam, Master student, Leiden Institute of Chemistry, Leiden University (UL)
- 169. Dana Rademaker, Master student, Leiden Institute of Chemistry, Leiden University (UL)
- 170. **Eelco Ruijter**, Associate Professor of Organic Chemistry, Department of Chemistry & Pharmaceutical Sciences, Vrije Universiteit Amsterdam (VUA)
- 171. Marcel de Jeu, Associate Professor of Mathematics, Leiden University (UL)
- 172. **Jordy Saya**, PhD Student, Department of Chemistry & Pharmaceutical Sciences, Vrije Universiteit Amsterdam (VUA)
- 173. Adri Minnaard, Director of the Stratingh Institute for Chemistry, University of Groningen
- 174. Meike Stöhr, Professor, Zernike Institute for Advanced Materials, University of Groningen
- 175. **Anja Palmans**. Associate Professor, Department of Chemistry and Chemical Engineering, TU Eindhoven (TUe)
- 176. **Ivo Filot**, Assistant Professor, Department of Chemistry and Chemical Engineering, TU Eindhoven (TUe)
- 177. **John Braun**, PhD Student, Department of Chemistry & Pharmaceutical Sciences, Vrije Universiteit Amsterdam (VUA)
- 178. Floris Rutjes, Professor, Institute for Molecules and Materials, Radboud University
- 179. **Wim Nieuwpoort**, Emeritus Prof. Theoretical Chemistry, University of Groningen (RuG)
- 180. **Daniel L. J. Broere**, Assistant Professor, Organic Chemistry & Catalysis, Utrecht University
- 181. **Taha Selim**, PhD Student, Theoretical Chemistry Department, IMM, Radboud University (RU), Nijmegen.

- 182. **Shaotao Bai**, PhD Student, Supramolecular and Homogeneous Catalysis, University of Amsterdam (UvA)
- 183. **Thomas R. Roose**, PhD Student, Department of Chemistry & Pharmaceutical Sciences, Vrije Universiteit Amsterdam (VUA)
- 184. Piter Bijma, Assistant Professor Animal Breeding and Genomics, Wageningen University
- 185. **Elena Daines**, PhD Student, Physical Organic Chemistry; Radboud University, Nijmegen (RU)

## The United Kingdom - UKRI has joined cOAlition S

- 1. **Philippe Wilson**, Lecturer Biological Chemistry & Bioinformatics, De Montfort University
- 2. Lee Cronin, Prof. and Regius Chair of Chemistry, University of Glasgow
- 3. **Perdita Barran**, Prof and Director of the Michael Barber Centre, University of Manchester
- 4. Varinder Aggarwal FRS, Professor of Synthetic Chemistry, University of Bristol
- 5. **Wuge Briscoe**, Reader in Physical Chemistry, University of Bristol
- 6. **Robin Bedford**, Professor of Catalysis, University of Bristol
- 7. **Dek Woolfson**, Professor of Chemistry and Biochemistry, University of Bristol
- 8. Tom Oliver, Royal Society University Fellow and Lecturer, University of Bristol
- 9. **David Naafs**, Royal Society University Fellow and Lecturer, University of Bristol
- 10. Stephen Wells, Researcher, University of Bath
- 11. **Jonathan Essex**, Professor of Chemistry, University of Southampton
- 12. Gareth Tribello, Lecturer in Atomistic Simulation, Queen's University Belfast
- 13. **Jonathan Clayden**, Professor of Chemistry, University of Bristol
- 14. Michael Shaver, Professor of Polymer Science, University of Manchester (UoM)
- 15. Matthew Nelson, Research Leader, Royal Botanic Gardens, Kew
- 16. Jennifer Garden, Ramsay Memorial Trust Fellow, University of Edinburgh
- 17. **Euan Brechin**, Professor of Coordination Chemistry, University of Edinburgh
- 18. **Christopher Arthur**, Research Fellow, University of Bristol
- 19. Paul Gates, Research Fellow, University of Bristol
- 20. Anthony Davis, Professor of Supramolecular Chemistry, University of Bristol
- 21. Scott Cockroft, Senior Lecturer in Organic Chemistry, University of Edinburgh
- 22. **Paul A. Clarke**, Reader in Organic Chemistry, University of York
- 23. Michael Coogan, Deputy Head of Chemistry Department, Lancaster University.
- 24. **Drew Thomson**, Lecturer, University of Glasgow
- 25. David Nelson, Lecturer and Chancellor's Fellow, University of Strathclyde
- 26. **Dr. John M. Brown** FRS, CRL, Oxford University
- 27. **Edward Tate**, Professor of Chemical Biology, Imperial College London & Francis Crick Institute
- 28. Frank Lewis, Senior Lecturer in Organic Chemistry, Northumbria University
- 29. Christopher Serpell, Senior Lecturer in Chemistry, University of Kent
- 30. Aniello Palma, Lecturer in Organic Chemistry, University of Kent
- 31. Valery N.Kozhevnikov, Associate Professor in Chemistry, Northumbria University
- 32. William Gee, Lecturer in Chemistry and Forensic Science, University of Kent
- 33. Marc van der Kamp, BBSRC David Phillips Research Fellow, University of Bristol

- 34. **Carmen Domene**, Prof of Computational Chemistry, University of Bath
- 35. **Andy Wilson**, Professor, School of Chemistry and Ashby Center for Structural Molecular Biology, University of Leeds
- 36. Marcin J. Skwark, Research Associate, University of Cambridge
- 37. **Niklaas J. Buurma**, Senior Lecturer in Physical Organic Chemistry, School of Chemistry, Cardiff University
- 38. **Sam Hay**, Senior Lecturer in Biophysical Chemistry, Manchester Institute of Biotechnology and School of Chemistry, University of Manchester
- 39. **Anthony Nash**, Postdoc, Department of Physiology, Anatomy, and Genetics, University of Oxford
- 40. **Sara Kyne**, Senior Lecturer in Chemistry, University of Lincoln
- 41. **David Tetard**, Senior Lecturer in Chemistry, Northumbria University
- 42. **Linus O. Johannissen**, Experimental Officer, Manchester Institute of Biotechnology, University of Manchester

# B. Non-cOAlition S countries (currently)

#### Australia

- 1. Pall Thordarson, Professor, University of New South Wales (UNSW Sydney)
- 2. **Michelle Coote**, Professor, Australian National University (ANU Canberra)
- 3. **Jonathon Beves**, ARC Future Fellow, University of New South Wales (UNSW Sydney)
- 4. **Philip Gale**, Professor and Head of School, School of Chemistry, University of Sydney
- 5. Wallace Cowling, Professor, The University of Western Australia (UWA)
- 6. Sheng Chen, Research Fellow, The University of Western Australia (UWA)
- 7. **Hans Daetwyler**, Research Leader Computational Biology, Agriculture Victoria Research, Department of Economic Development, Jobs, Transport and Resources, Victoria, Australia
- 8. **Jason Harper**, Associate Professor, University of New South Wales (UNSW Sydney)
- 9. **Gregory Warr**, Professor, School of Chemistry (The University of Sydney)
- 10. **Scott Kable**, Professor and Head of School of Chemistry (UNSW Sydney)
- 11. **Kristopher Kilian**, Senior Lecturer, University of New South Wales (UNSW Sydney)
- 12. **Stephen Glover**, Adjunct Professor, Department of Chemistry, University of New England (UNE)
- 13. **Torsten Thomas**, Professor and Director, University of New South Wales (UNSW Sydney)

#### Austria

- 1. **Karl Kirchner**, PhD, Professor, Institute of Applied Synthetic Chemistry, Vienna University of Technology
- 2. **Helmuth Hoffmann**, PhD, Professor, Institute of Applied Synthetic Chemistry, Vienna University of Technology
- 3. **Peter Weinberger**, PhD, Assist.-Prof., Institute of Applied Synthetic Chemistry, Vienna University of Technology

### Belgium

1. **Tatjana Parac-Vogt**, Professor, Department of Chemistry, KU Leuven

#### Brazil

1. **Antônio Eduardo Miller Crotti,** Ph.D. Professor, Department of Chemistry, Faculty of Philosophy, Sciences and Letters, University of São Paulo

#### Canada

- 1. **Sarah Rauscher**, Assistant Professor, Department of Chemistry, University of Toronto
- 2. **Dennis Salahub**, Professor Emeritus of Chemistry, University of Calgary
- 3. **Datong Song**, Associate Professor, Department of Chemistry, University of Toronto
- 4. Paul Hayes, Professor, Department of Chemistry, University of Lethbridge
- 5. **Ulrich Fekl**, Professor, Department of Chemistry, University of Toronto
- 6. Mark Stradioto, Professor, Department of Chemistry, Dalhousie University
- 7. **Stacey Wetmore**, Professor, Department of Chemistry and Biochemistry, University of Lethbridge
- 8. **Tim Storr**, Associate Professor, Department of Chemistry, Simon Fraser University
- 9. **Marc Roussel**, Professor, Department of Chemistry and Biochemistry, University of Lethbridge
- 10. **Borries Demeler**, Professor, Department of Chemistry and Biochemistry, University of Lethbridge

### China

1. Yaya Duan, Postdoc, Organic Chemistry, ICIQ

#### Croatia

 Aleksandra Maršavelski, Assistant Professor, Department of Chemistry, Faculty of Science, University of Zagreb

## Czech Republic

- 1. **Petr Bouř**, Professor of Analytical Chemistry, UCT and CAS
- 2. **Zlatko Janeba,** Senior Researcher, Institute of Organic Chemistry and Biochemistry CAS, Prague
- 3. Michal Hocek, Professor Organic Chemistry, Charles University and IOCB Prague
- 4. **Lubomír Rulíšek**, Senior Researcher, Institute of Organic Chemistry and Biochemistry CAS, Prague

- 5. Pavel Kočovský, DSc, FRSE, Prof. Organic Chemistry, Charles University
- 6. **Michal Straka**, Senior Researcher, Institute of Organic Chemistry and Biochemistry CAS, Prague
- 7. **Milan Vrabel**, Junior Group Leader, Institute of Organic Chemistry and Biochemistry, CAS, Prague
- 8. **Eliška Matoušová**, Assist. Prof. Organic Chemistry, Charles University
- 9. **Natalia Janowicz**, PhD student, Parasitology, Charles University, Prague
- 10. **Petr Hermann**, Professor Inorganic Chemistry, Charles University, Prague
- 11. Eliška Nováková, Assist. Prof. Analytical Chemistry, Charles University, Prague
- 12. **Cina Foroutan-Nejad**, Junior Researcher, Physical Chemistry, Central European Institute of Technology, Masaryk University, Brno
- 13. **Radovan Herchel**, Assoc. Professor, Department of Inorganic Chemistry, Palacký University Olomouc

# Egypt

- Hamdy Abdel-Shafy, Assistant Professor, Department of Animal Production, Faculty of Agriculture, Cairo University
- 2. **Hossam E. Rushdi**, Associate Professor of Animal Breeding and Genetics, Faculty of Agriculture, Cairo University

## Germany

- 1. **Sven Schneider**, Prof. and Head of Institute for Inorganic Chemistry, University of Göttingen
- 2. **Sarah Köster**, Prof. of Experimental Physics, University of Göttingen
- 3. **Martin Elsner**, Prof., Chair of Analytical and Water Chemistry, Technical University of Munich
- 4. **Matthias Beller**, Prof. Applied Homogeneous Catalysis, Leibniz Institute for Catalysis, Rostock
- Riza Dervisoglu, Postdoctoral researcher, Max Planck Institute for Biophysical Chemistry, Göttingen
- 6. **Torsten Beweries**, PD Dr., Coordination Chemistry and Catalysis,\_Leibniz Institute for Catalysis, Rostock
- 7. **Serena DeBeer**, Professor & MPI Director, inorganic spectroscopy, Max-Planck Institute for Chemical Energy Conversion (MPI CEC), Mülheim a/d Ruhr
- 8. **Birgit Strodel**, Professor, Computational Biochemistry, Forschungszentrum Jülich & Heinrich Heine University Düsseldorf
- 9. **Frank Neese**, Professor & MPI Director, molecular theory & spectroscopy, Max-Planck Institut für Kohlenforschung (MPI-Kofo), Mülheim a/d Ruhr
- 10. **Thomas Braun**, Professor for Inorganic Chemistry, Humboldt-Universität zu Berlin
- 11. Christian Limberg, Professor for Inorganic Chemistry, Humboldt-Universität zu Berlin
- 12. **Hannah Noa Barad**, Postdoctoral researcher, Max Planck Institute for Intelligent Systems, Stuttgart

- 13. Peter R. Schreiner, Professor of Organic Chemistry, Justus Liebig University, Giessen
- 14. Siegfried Schindler, Professor Inorganic Chemistry, Justus-Liebig-Universität, Gießen
- 15. **Patrick Hasche**, PhD Student, Coordination Chemistry and Catalysis, Leibniz Institute for Catalysis, Rostock
- 16. **Alois Fürstner**, Professor and Director at the MPI für Kohlenforschung, Department of Organometallic Chemistry, Mülheim/Ruhr

#### Greece

 Nikolaos Labrou. Professor, Department of Biotechnology, Agricultural University of Athens

### India

- 1. **Nanda Dulal Paul**, Ass. Prof., Dept of Chemistry, Indian Inst. of Eng. Sci. & Techn., Shibpur
- 2. **Suman Sinha**, PhD researcher, Dept of Chemistry, Indian Inst. of Eng. Sci. & Techn., Shibpur
- 3. **Rina Sikari**, PhD researcher, Dept of Chemistry, Indian Inst. of Eng. Sci. & Techn., Shibbur
- 4. **Siuli Das**, PhD researcher, Dept of Chemistry, Indian Inst. of Eng. Sci. & Techn., Shibpur
- 5. **Gargi Chakraborty**, PhD researcher, Dept of Chem., Indian Inst. of Eng. Sci. & Tech., Shibpur
- 6. **Rakesh Mondal**, PhD researcher, Dept of Chem., Indian Inst. of Eng. Sci. & Tech., Shibpur
- 7. **Seemika Banerjee**, PhD researcher, Dept of Chem., Indian Inst. of Eng. Sci. & Tech., Shibpur
- 8. N. Sukumar, Professor, Department of Chemistry, Shiv Nadar University

## Israel

- 1. **Ehud Keinan**, Professor Emeritus, Schulich Faculty of Chemistry, Technion-Israel Institute of Technology and **President of the Israel Chemical Society**
- 2. **Dan Tawfik**, Professor, Department of Biomolecular Sciences, Weizmann Institute
- 3. **Sason Shaik**, Professor of Theoretical Chemistry, The Hebrew University of Jerusalem
- 4. **Yuval Garini**, Professor, Department of Physics, Bar Ilan University
- 5. **Dan Major**, Professor, Chemistry Department, Bar Ilan University
- 6. **Norman Metanis,** Professor, Institute of Chemistry, The Hebrew University of Jerusalem
- 7. **Katya Kapilov-Buchman**, PhD, Department of Material Science and Engineering, Technion-Israel Institute of Technology
- 8. **Ilan Marek**, Professor, Schulich Faculty of Chemistry. Technion-Israel Institute of Technology
- 9. **Shimon Maksymenko**, PhD student, Schulich Faculty of Chemistry. Technion-Israel Institute of Technology

- 10. Raphael Mechoulam, Professor, The Hebrew University of Jerusalem
- 11. **Ilya Grinberg**, Professor, Chemistry Department, Bar Ilan University
- 12. **Mark Iron**, Associate Staff Scientist, Department of Chemical Research Support, Weizmann Institute of Science
- 13. **Timor Baasov**, Professor, Schulich Faculty of Chemistry. Technion-Israel Institute of Technology
- 14. **Izaak Cohen**, Ph.D., Department of Physics, Bar Ilan University
- 15. **Moshe Portnoy**, Associate Professor, School of Chemistry, Tel Aviv University
- 16. Aryeh Frimer, Professor Emeritus, Dept. of Chemistry, Bar Ilan University
- 17. **Lucio Frydman**, Professor, Department of Chemical and Biological Physics, Weizmann Institute
- 18. **Graham de Ruiter**, Assistant Professor, Schulich Faculty of Chemistry. Technion Israel Institute of Technology
- 19. Arlene Wilson-Gordon, Professor Emerita, Department of Chemistry, Bar-Ilan University
- 20. **Zeev Gross**, Professor, Schulich Faculty of Chemistry. Technion Israel Institute of Technology
- 21. **Jan M. L. (Gershom) Martin**, Baroness Thatcher Professor of Chemistry, Weizmann Institute
- 22. **Slava Freger**, Professor, Wolfson Department of Chemical Engineering. Technion Israel Institute of Technology
- 23. Itamar Willner, Professor, Institute of Chemistry, The Hebrew University of Jerusalem
- 24. **Irena Efremenko**, Weizmann Institute of Science
- 25. **Ashraf Brik**, Professor, Schulich Faculty of Chemistry. Technion-Israel Institute of Technology
- 26. **Miriam Karni**, Ph.D, Research Fellow, Schulich Faculty of Chemistry. Technion Israel Institute of Technology
- 27. Arkadi Vigalok, Professor, School of Chemistry, Tel Aviv University
- 28. **Ronny Neumann**, Professor, Department of Organic Chemistry, Weizmann Institute of Science
- 29. **Yoav D. Livney**, Associate Professor, Department of Biotechnology & Food Engineering, Technion- Israel Institute of Technology
- 30. Mattan Hurevich, Senior Lecturer, The Hebrew University of Jerusalem
- 31. **Gilad Haran**, Professor, Department of Chemical and Biological Physics, Weizmann Institute of Science
- 32. **Ester Segal**, Associate Professor, Department of Biotechnology & Food Engineering, Technion-Israel Institute of Technology
- 33. **Uri Banin, Professor**, Institute of Chemistry & the center for nanoscience and nanotechnology, The Hebrew University of Jerusalem
- 34. **Maya Davidovich-Pinhas**, Asst. Prof., Department of Biotechnology & Food Engineering, Technion- Israel Institute of Technology
- 35. Indrajit Maity, postdoc, Department of Chemistry, Ben-Gurion University of the Negev
- 36. Gilbert Daniel Nessim, Assistant Professor, Department of Chemistry, Bar Ilan University
- 37. Amnon Albeck, Professor, Department of Chemistry, Bar Ilan University
- 38. Anatoly Belostotskii, Associate Professor, Department of Chemistry, Bar Ilan University

- 39. **Yuval Shoham**, Erwin and Rosl Pollack Chair in Biotechnology, Technion-Israel Institute of Technology
- 40. Wilfried J. W. Mayer, D.Sc., Retired Head Analytical R&D at ADAMA Makhteshim Ltd.
- 41. Joel Bernstein, Prof. Emeritus, Department of Chemistry, Ben-Gurion University
- 42. **Dr. Tuvia Zisner**, Chemical Engineer
- 43. **Ranjeesh Thenarukandiyil**, postdoc, Schulich Faculty of Chemistry. Technion Israel Institute of Technology
- 44. **Pravat Mondal,** postdoc, Schulich Faculty of Chemistry. Technion Israel Institute of Technology
- 45. **Chinna Ayya Swamy P**, postdoc, Schulich Faculty of Chemistry. Technion Israel Institute of Technology**Micha Fridman**, Professor, School of Chemistry, Tel Aviv University.
- 46. **Ilana Kolodkin-Gal**, Assistant Professor, Department of Molecular Genetics, Weizmann Institute
- 47. Nir Ben-Tal, Professor, The George S. Wise Faculty of Life Sciences, Tel Aviv University
- 48. Michael Fainzilber, The Chaya Professor in Molecular Neuroscience, Weizmann Institute
- 49. **Charles E. Diesendruck**, Assist. Prof., Schulich Faculty of Chemistry, Technion Israel Institute of Technology
- 50. **Daniella Godfarb**, Professor Department of Chemical and Biological Physics, Weizmann Institute of Science
- 51. **Alex Leshansky**, Assoc. Professor, Department of Chemical Engineering, Technion-Israel Institute of Technology
- 52. **Shlomo Yitzchaik**, Professor of Chemistry, The Hebrew University of Jerusalem

### Japan

- Paola Laurino, Assistant Professor (Protein Engineering and Evolution), Okinawa Institute of Science and Technology, Okinawa
- 2. **Eugene Khaskin**, Researcher (Organometallic Chemistry), Okinawa Institute of Science and Technology, Okinawa

### Lithuania

1. **Visvaldas Kairys**, Senior researcher, Vilnius University

# New Zealand

1. Margaret Brimble, Distinguished Professor (Organic Chemistry), University of Auckland

## Portugal

- 1. **Maria José Calhorda**, Professor of Inorganic Chemistry, University of Lisboa, Portugal
- 2. **Ana Margarida Martins**, Assistant Professor with Habilitation at University of Lisboa, Portugal

- 3. Paulo Nuno Martinho, Researcher, University of Lisboa
- 4. **Jorge Oliveira**, Assistant Professor, Polytechnic Institute of Viseu, Portugal
- 5. **María Teresa Blázquez-Sánchez**. Postdoc, University of Lisboa, Portugal
- 6. **Ara Núñez Montenegro**, Postdoc, University Of Porto, Portugal

#### Serbia

- 1. **Maja Gruden**, Assoc. Prof. Chemistry, University of Belgrade
- 2. **Melita Vidakovic**, Full Research Professor, Institute for Biological Research, University of Belgrade
- 3. **Alisa Gruden-Movsesijan**, Research Professor, Institute for the Application of Nuclear Energy INEP, University of Belgrade

### Spain

- 1. **Antonio M. Echavarren**, Prof. Organic Chemistry, Institute of Chemical Research of Catalonia (ICIQ), **President of the Spanish Royal Society of Chemistry**
- Gonzalo Jiménez-Osés, Group Leader in Computational Chemical Biology, Ramon & Cajal Fellow, University of La Rioja (UR), President of the Young Chemists Division of the Spanish Royal Society of Chemistry
- 3. **Julio Lloret-Fillol**, ICREA Prof. and group leader at Institute of Chemical Research of Catalonia (ICIQ)
- 4. **Arjan W. Kleij**, ICREA Professor and Group Leader at Institute of Chemical Research of Catalonia (ICIQ)
- 5. Noufal Kandoth, Postdoc, Institute of Chemical Research of Catalonia (ICIQ)
- 6. **Jan Oldengott**, Postdoc, Institute of Chemical Research of Catalonia (ICIQ)
- 7. **Jesús Jover**, Assistant Prof., Universitat de Barcelona (UB)
- 8. **Jordi Villà-Freixa**, Prof., Biosciences, Universitat de Vic Universitat Central de Catalunya (UVic-UCC)
- 9. **Juan Carlos Sancho-Garcia**, Prof. Physical Chemistry, University of Alicante (UA)
- 10. Miquel Costas Salgueiro, Prof. Inorganic Chemistry, Universitat de Girona
- 11. Cristina Tejel, Scientific Researcher, CSIC-Universidad de Zaragoza
- 12. Miguel A. Ciriano, Research Prof., CSIC-Universidad de Zaragoza
- 13. Javier A. Cabeza, Prof. Inorganic Chemistry, Universidad de Oviedo
- 14. Enrique Pedroso, Prof. Emeritus of Organic Chemistry, Universitat de Barcelona
- 15. **Arkaitz Correa**, Ramon y Cajal Researcher, Organic Chemistry, University of the Bask Country.
- 16. Narciso M. Garrido, Prof. Organic Chemistry, Universidad de Salamanca
- 17. **Eduardo Peris Fajarnés**, Prof. Organometallic Chem. & Cat., Universidad Jaume I, Castellon
- 18. Elisabet Romero, Group Leader, Institute of Chemical Research of Catalonia (ICIQ)
- 19. Antonio de la Hoz, Group Leader, Universidad de Castilla-La Mancha
- 20. **José A. Pomposo**, IKERBASQUE Research Professor at the University of the Basque Country (UPV/EHU)

- 21. José Carlos Menéndez, Professor Organic Chemistry, Universidad Complutense, Madrid
- 22. Ernesto de Jesús, Prof. Inorganic Chemistry, Universidad de Alcalá.
- 23. Pedro Merino.
- 24. Marta Elena Gonzalez Mosquera, Associate Professor Inorganic Chemistry, Univ. Alcala
- 25. **Israel Fernández López**, Associate Professor (Organic Chemistry), Universidad Complutense de Madrid
- 26. **Justo Cobo Domingo**, Professor of Organic Chemistry, Universidad de Jaén
- 27. Jose A. Mata, Associate Professor Inorganic Chemistry, Universitat Jaume I
- 28. **Miguel Ángel Alario Franco**: Emeritus professor Inorg. Chemistry(UCM) Former President Real Academia de Ciencias de España
- 29. Vicent Moliner. Professor of Physical Chemistry. Universitat Jaume I, Castellón
- Jesús Campos. Scientific Researcher, Spanish National Research Council (CSIC), Sevilla.
- 31. Eduardo Sola, Scientific Researcher, CSIC-Universidad de Zaragoza
- 32. **X. Ramón Nóvoa**, Professor of Chemical Engineering. University of Vigo.
- 33. Beatriu Escuder, Associate Professor Organic Chemistry, Universitat Jaume I.
- 34. Amor Rodríguez Iglesias. Scientific Researcher, IIQ-CSIC, Sevilla.
- 35. Rosario González-Muñiz, Scientific Researcher, IQM-CSIC, Madrid
- 36. Amadeu Llebaria. Scientific Researcher, IQAC-CSIC, Barcelona
- 37. Ángel J. Moreno. Scientific Researcher, CFM-CSIC, San Sebastián
- 38. Lourdes Ramos. Senior Scientific Researcher, IQOG-CSIC, Madrid
- 39. **Daniele Cangialosi**. Scientific Researcher, CFM-CSIC, San Sebastian
- 40. **Javier Hernández-Borges**. Professor of Analytical Chemistry, University of La Laguna (ULL), Tenerife.
- 41. **Verónica Pino Estévez**. Professor of Analytical Chemistry, University of La laguna (ULL), Tenerife
- 42. **Pedro Alberto Enríquez Pama**, Lecturer of Physical Chemistry, Universidad de La Rioja (UR).
- 43. **Jose M. Lassaletta**, Research Professor, Instituto de Investigaciones Químicas (CSIC-US)
- 44. **Ignacio Tuñón**, Professor of Physical Chemistry, University of Valencia
- 45. **Joaquín López Serrano**, Associate Professor of Inorganic Chemistry. Universidad de Sevilla
- 46. Beatriz Julián López, Associate Professor Inorganic Chemistry, Universitat Jaume I.
- 47. Alma Viso. Senior Scientific Researcher, IQOG-CSIC, Madrid.
- 48. **Juan Pedro Espinós Manzorro**, Research Professor, Instituto de Ciencia de Materiales de Sevilla (CSIC-US)
- 49. Fernando López Ortiz, Professor of Organic Chemistry, Universidad de Almería (UAL).
- 50. **Noemí de los Santos Álvarez**, Associate Professor of Analytical Chemistry. Universidad de Oviedo.
- 51. Roberto Fernández de la Pradilla, Senior Scientific Researcher, IQOG-CSIC, Madrid.
- 52. José M. Fernández-Colinas, Professor, University of Oveida
- 53. Feliu Maseras, Group leader, Institute of Chemical Research of Catalonia (ICIQ)
- 54. Fernando López, Senior Scientific Researcher, CSIC, Spain

- 55. **Maria Ventura Sánchez-Horneros,** Postdoctoral fellow, Instituto de Tecnologia Quimica (ITQ-CSIC), Valencia.
- 56. **José Carlos González Gómez**, Associate Professor of Organic Chemistry, Universidad de Alicante (UA)
- 57. Miquel Solà, Professor of Physical Chemistry, University of Girona
- 58. Laura Rodríguez Raurell, Associate Professor, University of Barcelona
- 59. Albert Moyano, Professor of Organic Chemistry, University of Barcelona
- 60. José Luis Mascareñas, Professor Organic Chemistry, University of Santiago
- 61. Gonzalo Blay Ilinares, Professor of Organic Chemistry, Universitat de València
- 62. **Pedro Cintas**, Prof. Organic Chemistry, Universidad de Extremadura (UEX)
- 63. Carmen Pérez, Associate Professor of Materials Science, University of Vigo
- 64. **Joaquín Campos**, Full Professor of Medicinal and Organic Chemistry, University of Granada
- 65. Angel Orte, Professor of Physical Chemistry, University of Granada
- 66. **Moisés García-Morales**, Associate Professor of Chemical Engineering, University of Huelva
- 67. Francisco Alonso, Professor of Organic Chemistry, University of Alicante
- 68. **Diego J. Ramón**, Professor of Organic Chemistry, University of Alicante
- 69. Miguel A. Esteruelas, Professor of Inorganic Chemistry, University of Zaragoza-CSIC
- 70. José A. Fernández, President of GEFAM, Universidad del País Vasco, Leioa
- 71. José M. Fraile, Scientific Researcher, ISQCH, CSIC-Universidad de Zaragoza
- 72. José M. G. Molinillo, Professor of Organic Chemistry, Universidad de Cádiz
- 73. Pablo Barrio, Ramón & Cajal Fellow, Universidad de Oviedo
- 74. Carlos Vila, Ramón & Cajal Fellow, Universitat de València
- 75. Carlos del Pozo Losada, Professor of Organic Chemistry, University of Valencia
- 76. **Atsushi Urakawa**, Group Leader, Institute of Chemical Research of Catalonia (ICIQ)
- 77. **Jesús J. Pérez-Torrente**, Prof. Inorganic Chemistry, University of Zaragoza
- 78. **Jenifer Rubio Magnieto**, Post-doctoral fellow, Universitat Jaume I o Castelló.
- 79. Montserrat Oliván, Scientific Researcher, Universidad de Zaragoza-CSIC
- 80. **Diego Peña**, Associate Professor of Organic Chemistry, CIQUS, Univ. Santiago de Compostela
- 81. **Iñigo López Arbeloa**, Professor, Departamento Química Física, Universidad del País Vasco/EHU, Bilbao
- 82. **Miguel Ángel Casado Combreras**, PhD Student, Instituto de Investigaciones Químicas (CSIC-University of Seville)

#### Switzerland

- 1. **Raffaella Buonsanti,** Assistant Professor, Department of Chemical Sciences and Engineering, EPFL
- 2. Xile Hu, Professor, Laboratory of Inorganic Synthesis and Catalysis, EPFL
- 3. **Karl Gademann**, Professor and Head of the Department of Chemistry, University of Zurich

- 4. **Jérôme Waser**, Associate Professor, Laboratory of Catalysis and Organic Synthesis, EPFL
- 5. **Clemence Corminboeuf**, Associate Professor, Laboratory for Computational Molecular Design, EPFL
- 6. **Stefan Bienz**, Professor, Department of Chemistry, University of Zurich
- 7. **Michal Juríček**, Assistant Professor, Department of Chemistry, University of Zurich
- 8. **David Tilley**, Assistant Professor, Department of Chemistry, University of Zurich
- 9. Christophe Copéret, Professor, Department of Chemistry and biosciences, ETH Zürich
- 10. **Maksym V. Kovalenko**, Professor, Inorganic Chemistry, ETH Zurich (CH)
- 11. **Donald Hilvert**, Professor, Department of Chemistry and Applied Biosciences, ETH Zürich
- 12. **Antonio Togni**, Professor, Department of Chemistry and Applied Biosciences, ETH Zürich
- 13. **Helma Wennemers**, Professor, Department of Chemistry and Applied Biosciences, ETH Zürich
- 14. **Gunnar Jeschke**, Professor and Head of the Department of Chemistry and Applied Biosciences, ETH Zürich
- 15. **Markus Reiher**, Professor, Department of Chemistry and Applied Biosciences, ETH Zürich
- 16. **Peter Chen**, Professor, Department of Chemistry and Applied Biosciences, ETH Zürich

#### The United States

- Arieh Warshel, Distinguished Professor of Chemistry, University of Southern California, Nobel Prize 2013
- 2. **Peter Kasson**, Assoc. Prof, University of Virginia and Uppsala University
- 3. Michael P. Doyle, Professor, Dept. of Chemistry, University of Texas at San Antonio
- 4. **Daniel J. Mindiola**, Professor, Dept. of Chemistry, University of Pennsylvania
- 5. **Robert Crabtree**, Professor, Dept. of Chemistry, Yale University
- 6. **Susannah Scott**, Distinguished Professor of Chemical Engineering, University of California, Santa Barbara
- 7. **Kenneth D. Karlin**, Professor, Dept. of Chemistry, Johns Hopkins University
- 8. **James Mayer**, Professor, Dept. of Chemistry, Yale University
- 9. **Andrei Chirila**, Research Associate, Dept. of Chemistry, University of Washington
- 10. **Anna Krylov**, Gabilan Distinguished Professor in Science and Engineering, University of Southern California
- 11. **Rick Anderson**, Associate Dean for Collections & Scholarly Communication, J. Willard Marriott Library, University of Utah
- 12. **Robert Nakamoto**, Professor, Dept of Mol. Physiology and Biol. Physics, University of Virginia
- 13. **Rachel Segalman**, Professor of Chemical Engineering and Materials, University of California, Santa Barbara
- 14. **Phillip Christopher**, Associate Professor of Chemical Engineering, University of California, Santa Barbara
- 15. **Joanna Aizenberg**, Professor of Materials Science and Chemistry, Harvard University
- 16. **Juergen Eckert**, Research Professor, Texas Tech University